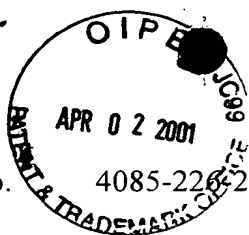


Docket No. 4085-22627



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: MICHELLE A. J. PALMER, ET AL.

SERIAL NO: 09/654,499

FILING DATE: SEPTEMBER 1, 2000

FOR: RECEPTOR FUNCTION ASSAY FOR G-PROTEIN COUPLED
RECEPTORS AND ORPHAN RECEPTORS BY REPORTER ENZYME
MUTANT COMPLEMENTATION

PRELIMINARY AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Prior to examination of the above-identified application, and to advance the prosecution thereof, please amend the above-referenced application in the following manner.

IN THE SPECIFICATION:

Delete the first paragraph, at page 2, lines 1-8, and insert therefor the following:

a, --The signaling pathway and final cellular response that result from GPCR stimulation depends on the specific class of G-protein with which the particular receptor is coupled (Hamm, "The many faces of G-Protein Signaling." J. Biol. Chem., 273:669-672 (1998)). For instance, coupling to the Gs class of G-proteins stimulates cAMP production and activation of Protein Kinase A and C pathways, whereas coupling to the Gi class of G-proteins down regulates cAMP. Other second messenger systems as calcium, phospholipase C, and phosphatidylinositol

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